



# ARC OVER



The Official Newsletter of the Fox River Radio League  
Since 1924

Our 95th Year in Amateur Radio!

May 2019  
Revised: 4-30-2019

*May 14<sup>th</sup> Meeting:* - Review of the proposed FRRL By-Laws changes.



Proud to be an ARRL  
Affiliated Club

**walk MS** 2019 - MS WALK  
 Sunday May 5, 2019 - 7:30 AM  
 Practice Run Through - Sunday April 28  
 The MS Walk team is ready to hit the ground on May 5th.  
 Thank you to those working this event. Be Safe & Have Fun!  
 Contact: Priscilla Miller, AE9PM, [director3@frrl.org](mailto:director3@frrl.org)




**NEXT — Board Meeting:**

Tue - May 7, 2019 @ 7:00 PM  
Colonial Café, in Aurora, IL

**NEXT — Membership Meeting:**

Tue - May 14, 2019 @ 7:30 PM  
Bethany Lutheran Church in  
Batavia, IL

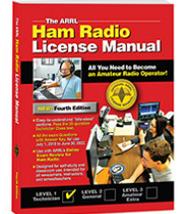
**NEXT — VE Test Session:**

Sat - Apr 27, 2019 @ 9:00 AM  
Golden Corral, in Aurora  
4270 E New York St, Aurora, IL

Tue - May 21, 2019 @ 7:00 PM  
Messenger Library, in  
North Aurora, IL

**License Training Class starts SOON!**

## Technician Class License Training Course



When: **Saturdays — 9 AM - 12 PM**

Dates: **May 18 -thru- July 27, 2019**

Location: **Golden Corral in Aurora**  
4270 E. New York St. Aurora, IL 60504

Once again, **FRRL** and **BARS** will co-present a **FREE - 11 week** Technician Class License Training course. The Textbook for class is the [\*\*ARRL Ham Radio License Manual, 4th Edition\*\*](#).

The class will span **ARRL Field Day** event on **June 22, 2019**. Students will go on a Class "Field Trip to Field Day" to visit the **FRRL** and **BARS Field Day Site Locations**. For a first-hand experience of "*On the Air*" as a Ham Radio Operator.

**To Register:** <https://forms.gle/g5Q75CutLyYrxkjX8>

For more information Contact:

Education Chairman: Cyndi Gillies, K9NAX at [Education@frrl.org](mailto:Education@frrl.org)

Class Coordinator: Lance Clarke, W9QB at [Director4@frrl.org](mailto:Director4@frrl.org)

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## About the FRRL

The **Fox River Radio League, Inc.** is a general interest Amateur Radio club serving the central Fox River Valley area in Illinois. Club Records indicate the club has been in existence since at least 1924, and it has functioned continuously ever since. We are an ARRL Special Service Club, an Illinois not-for-profit corporation, and a 501 (c)(3) tax exempt organization as specified in Federal IRS Statutes.

FRRL sponsors: Training Classes for new Ham Radio Operators, License Examination Sessions, and participate in other various local Public Service Events. If you have a specialized amateur radio interest, chances are you share it with one or more of our club members.

The **Fox River Radio League** meets on the **2nd Tuesday** of every month at **Bethany Lutheran Church**, located at: **8 S. Lincoln St.** in **Batavia, IL**. The meeting begins at **7:30 PM** and includes a short business portion, social time and a program presentation of interest.

Meetings are Open to the Public. Anyone interested in the amateur radio hobby are invited to attend. Family members are welcome.

Please welcome our newest members to the club!

CALL	NAME	LICENSE CLASS
N9NJP	James Griffin	Amateur Extra

In Memoriam / Silent Keys

CALL	NAME	LOCATION

## ArcOver FRRL Newsletter

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The **FRRL ArcOver Newsletter** is published Monthly by Fox River Radio League Inc. Any Amateur Radio Articles, Information and Letters are *always* welcome! Deadline for all News Articles, Items and Information is the **3rd TUE of each Month** in order to be included in the *Next Month's ArcOver* newsletter. News Articles and Information should be sent - by Email to: [newsletter@frrl.org](mailto:newsletter@frrl.org) - or - via the U.S. Postal Service - Mail to: **FRRL Newsletter, PO Box 673 Batavia, IL 60510.**

Contact the Newsletter Editor for additional details and/or submission guidelines. Prior permission is required to republish original ArcOver material.

**The opinions expressed within the ArcOver newsletter are strictly those of the article authors and do not necessarily represent the opinions of the FRRL Inc., its sponsors, board members, membership, or the ArcOver editor.**

- 2019 - FRRL ArcOver Newsletter Editor: Cyndi M Gillies, K9NAX [newsletter@frrl.org](mailto:newsletter@frrl.org)

## Fox River Radio League

Founded 1924

### Mailing Address:

P. O. Box 673  
Batavia, Illinois 60510-0673

Email: [info@frrl.org](mailto:info@frrl.org)

Web Site: <http://www.frrl.org>

### President:

Daniel Taddei, W9STS

### Vice President:

Roger Bara, W9YU

### Secretary:

David Booher, W9BOO

### Treasurer:

Dan Harmon, WA9YKK

### Directors:

- 1 - Jim Nevitt, Jr., N9XP
- 2 - John Miller, W9JDM
- 3 - Priscilla Miller, AE9PM
- 4 - Lance Clarke, W9QB

### Past President:

Dennis Barfuss, W9HI

### License Trustee:

Kermit Carlson, W9XA

### Newsletter & Facebook Editor, Public Relations Officer, & Education Chairman:

Cyndi Gillies, K9NAX  
[newsletter@frrl.org](mailto:newsletter@frrl.org) - [pr@frrl.org](mailto:pr@frrl.org)  
[education@frrl.org](mailto:education@frrl.org)

### Webmaster:

Chris Kennell, KC9BKS  
[webmaster@frrl.org](mailto:webmaster@frrl.org)

FRRL Annual Dues are payable **no later** than the **January** Club Meeting each year. New Members joining during the year will have their first year's dues prorated to the nearest yearly quarter.

### 2019 Membership Dues:

**Regular Dues - \$30. - Family Dues - \$40.**  
Sr. Citizen - \$25. - Active Military - \$25. -  
Student (full time under 22) - \$25. a year.

Members can help support FRRL Repeaters by making an annual \$10. donation.

For more information visit our website:  
<http://www.frrl.org/membership.php>

# License Exam - Test Pool Questions:



Good Luck!

The ArcOver is going to test your knowledge...

Each month the ArcOver will post 3 Exam Test Pool questions to challenge you.

One question from each of the Technician, General, and Extra Class License exams.

*(Keep a look out while reading the ArcOver, to find the Answers)*

## Technician Class

T7A03

Which of the following is used to convert a radio signal from one frequency to another?

- A. Phase splitter
- B. Mixer
- C. Inverter
- D. Amplifier



## General Class

G0B07

Which of these choices should be observed when climbing a tower using a safety belt or harness?

- A. Never lean back and rely on the belt alone to support your weight
- B. Confirm that the belt is rated for the weight of the climber and that it is within its allowable service life
- C. Ensure that all heavy tools are securely fastened to the belt D-ring
- D. All of these choices are correct



## Extra Class

E0A08

What does SAR measure?

- A. Synthetic Aperture Ratio of the human body
- B. Signal Amplification Rating
- C. The rate at which RF energy is absorbed by the body
- D. The rate of RF energy reflected from stationary terrain

Share your thoughts & ideas....

Is there something that you'd like to see added to the ArcOver Newsletter?

Share your ideas with the ArcOver Editor:

Cyndi M Gillies, K9NAX

Send email to: [newsletter@frrl.org](mailto:newsletter@frrl.org)

- or - [k9nax@arrl.org](mailto:k9nax@arrl.org)



# President's QST

Dan Taddei, W9STS

May - 2019

And the changes continues...

The Bylaws Review Team has completed its work and is ready to present their results. But first the process: At our May meeting the changes will be presented to the membership and action will be tabled until the June membership meeting. The updated bylaws will then be published on the FRRL website and in the June ArcOver. At the June meeting the Bylaws will be presented and voted on without further amendments.

As you can see, the May and June meetings will be very important meetings to attend. The bylaws will reflect the realities of how we communicate in the 21st century. It is critical that you have a chance to see the changes that are being proposed and vote for improving our club.

Continuing with the theme of change, we are looking for ways to broadcast parts of our membership meetings. Not sure if it will be ready for primetime by the May membership meeting or not. We will keep you updated.

In May, we will be supporting the MS Walk on the first Sunday, May 5th. Thank you to the volunteers who spent the morning helping the walkers and supporting the MS Walk organizers. Many of you will be going to Hamvention this month. Some will sell and some will buy, but there will be much to learn. Most of all, Travel Safe, and Enjoy! I wish I could go this year but it is not to be. I will have to do my purchases online this year.

Sadly, Chris Kennell KC9KBS has informed me that he needs to give up the management of the Website and Group.IO. I am looking for someone that would like to take up the webmaster role. This would be a commitment of up to 2 hours per week to maintain the website and group.io systems. Let me know if this is something you might be interested.

Lastly, June is Field Day month. We need everyone that is available to come out and operate. To come and enjoy the fun and fellowship.

Until next month

73,

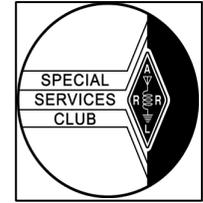
Dan Taddei, W9STS

President, Fox River Radio League

Email: [President@frrl.org](mailto:President@frrl.org)



**Fox River Radio League**  
"Established 1924"  
An ARRL Special Service Club  
W9CEQ PO Box 673 Batavia, IL 60510



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Minutes of the Regular Meeting of the General Membership of the  
Fox River Radio League (FRRL) an Illinois not-for-profit Corporation

*Held at Bethany Lutheran Church, Batavia, IL*

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## Meeting Minutes April 9, 2019

The meeting was called to order at 19:30 CDT by Past President Denny W9HI. Audience introductions: Name, Call, QTH and "What is most important to you about Ham Radio"?

Approval of March 2019 Member Meeting minutes: Motion was moved, seconded and accepted. There were 47 people present at this meeting.

### Treasurer's Report, Dan WA9YKK

Dan reported the financial balances as of 04/01/2019.

### Director Report: Field Day/Repeater, Jim N9XP

Reports were given on the current repeater. Dave N9XU is looking for more volunteers for NET Control. Repeater noise was reported by Debby WX9VOR on the west side of Aurora. Kermit W9XA said he will investigate the noise problem as time permits.

### Director Report: Classes/Programs/VE, John W9JDM

John reported on the Extra Class and the upcoming Tech and General classes. John gave statistics on the completed class. John updated the group on the upcoming VE Sessions and future Programs. Please see the website for future programs. John put out the call to generate interest in Special Interest Groups (SIGs).

### Director Report: Outreach/Newsletter/PR, Priscilla AE9PM

MS Walk is going well. Priscilla reported that she has all needed volunteers. CAP classes are scheduled and ready to go. Kane County Cougar game will be scheduled for the future (July 19<sup>th</sup>). A signup sheet was provided. We had good support for Ham and a Sandwich. A reminder that the ArcOver submission deadline is the 3<sup>rd</sup> Tuesday of the month.

### Director Report: Tech/Membership/Yahoo-Group.io, Lance W9QB

The current member count is 122. There are currently 75 members active in groups.io. If you wish to going the group, send an email from the email address you wish to subscribe to [groupadmin@frrl.org](mailto:groupadmin@frrl.org). After setup, your email address will be used as the sign on to the groups.io area.

### ARES, Debby WX9VOR (absent)

Debby updated the group on several current ARES activities. Skywarn classes have been very busy and filling up. Visit the website at <http://kanecountyares.org> or see Debby for further specific details on any event happening with ARES.

### Repeater Report Kermit W9XA.

Kermit reported previously.

## **Old Business:**

### **Technician Class: Call for Instructors**

Instructors are needed.

### **Review of Bylaws.**

The Club Bylaws are completed. A review will be at the next member meeting

### **Repeater Board**

Pete Walter K9PW has been appointed to the repeater board.

## **New Business:**

### **Field Day**

Denny W9HI presented the dates for the next Field Day. The generator has been approved from the City of Aurora. A list of the current band captains was presented. Volunteers are still needed to assist with the Welcome Tent. Gordie AA5TN is working on the food arrangements. Denny also presented a preliminary site map.

### **Announcements**

Dave N9XU demonstrated a high gain VHF 2m antenna.

Dan N9III has a warehouse full of parts from the old Melvin Electronics in Geneva. Contact him if interested.

Priscilla AE9PM mentioned that the MS Walk is not a volunteer "walk in" event. You must be registered

### **Upcoming Events**

April 9<sup>th</sup> Membership Meeting

April 28<sup>th</sup> MS Walk Practice

May 7<sup>th</sup> Board Meeting

May 14<sup>th</sup> Membership Meeting

May 21<sup>st</sup> VE Testing

### **Adjournment**

A motion was received, seconded and carried to adjourn the meeting. The member meeting was adjourned at 20:10 CDT.

Respectfully submitted,

David Booher W9BOO

FRRL Secretary

**Technician Class**

T7A03

Answer: **B. Mixer**

# FRRL - Upcoming Meeting Presentations



## May Meeting: Tuesday, May 14, 2019

General Class

G0B07

Answer: **B. Confirm that the belt is rated for the weight of the climber and that it is within its allowable service life**

Topic: FRRL Bylaws Presentation and Review  
Presented by: Dan Taddei - W9STS

June Meeting: Tuesday, June 11, 2019 - Field Day - Final Prep.  
Presented by: Gordon Dailey AA5TN / Denny Barfuss W9HI / Dan Harmon WA9YKK

July Meeting: Tuesday, July 9, 2019 - John Grusel KC9OJV  
Fredbox QRP 2m Transceiver Project.

August Meeting: Tuesday, Aug 13, 2019 - Harry Jones K9DXA  
So I've Got A License, Now What?

Interested in presenting, or have an idea for a presentation? - contact us at: [program@frrl.org](mailto:program@frrl.org)

2019  
Spectrum Defense Fund

Protect Your Frequencies.

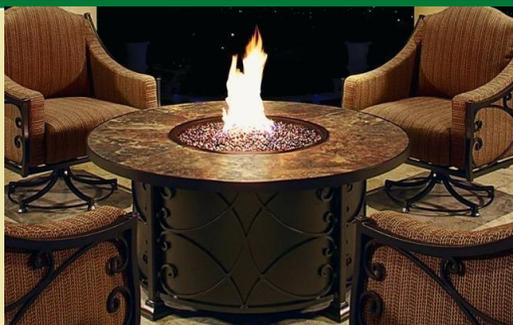
Donate Now

<http://www.arrl.org/spectrum-defense-fund>

ARRL 2019  
SPECTRUM DEFENSE FUND

# FRRL

## Roundtable



# Fireside

# CHAT

**FRRL Fireside Roundtable Chat** - Is a newer area in the ArcOver: A place for you, our FRRL Members, to come share, to voice your opinions, thoughts and ideas about FRRL club and Amateur Radio in general.

To submit your thoughts—Email: [Newsletter@frrl.org](mailto:Newsletter@frrl.org)—Subject Line: FRRL CHAT:

*Some FRRL Fireside Roundtable Chat articles have previously been posted in the FRRL Groups.io forum.*

Submitted By: Paul Mitchell — KC9SEB

Subject: RaspberryPi and the Hobby

Source: *From the Groups.io*

For those that like to tinker around with RaspberryPi (like me) Small ~\$30 Micro Computer ([www.raspberrypi.org](http://www.raspberrypi.org)) - The latest version of the MagPi (enthusiast magazine) has some great projects for Ham Radio:

<https://www.raspberrypi.org/magpi-issues/MagPi80.pdf>

I personally am in the process of building a standalone / portable WSPR device built upon the RaspberryPi with a small add-on board (also known as a hat :-)) <https://qrpguys.com/ha7dcd-ez-pi-wspr> (thanks to John KC9OJV for the prior post and heads up on its existence)...which is also called out in the MagPI link.

For your reading pleasure....

Enjoy~!~

73 de Paul - KC9SEB

- FRRL Fireside Roundtable Chat -

To submit your thoughts & Comments or Topics —Email: [Newsletter@frrl.org](mailto:Newsletter@frrl.org)—Subject Line: FRRL CHAT:

*Comments & opinions are of the submitter's and not necessarily the opinions of the ArcOver editor, or FRRL Officers or Board of Directors.*

# 2019 — Upcoming Events Calendar:

## — April —

Sat Apr 27 — SAT - VE Testing — 9 AM @ Golden Corral in Aurora — 4270 E. New York St. Aurora, IL

Sun Apr 28 — MS Walk — Run Through Practice @ Pottawatomie Park in St. Charles, IL  
8 North Ave - contact: Priscilla, AE9PM for more info

## — May —

Sun May 5 — MS Walk — 7:30 AM - 12 noon @ Pottawatomie Park in St. Charles, IL  
8 North Ave - contact: Priscilla, AE9PM for more info

\*Sun May 5 — DeKalb Hamfest — Sandwich Fairgrounds, 1401 Suydam Rd, Sandwich, IL  
Website: <http://www.karc-club.org>

Tue May 7 — Board of Director's Meeting — 7:00 pm @ Colonial Café in Aurora, IL

Tue May 14 — General Membership Meeting — 7:30 pm @ Bethany Luther Church in Batavia, IL

\* Fri May 17 - Sat May 18 - Sun May 19 — Dayton Hamvention & ARRL National Convention  
@ Green Co. Fairground & Expo Center, 120 Fairground Rd. Xenia, OH 45385  
Website: <http://www.arrl.org/arrl-expo>

Sat May 18 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 1 — Ch. 1: Welcome to Amateur Radio - Scott Childers W9CHI

Tue May 21 — VE Testing — 7:00 pm - 9:00 pm @ Messenger Library in North Aurora, IL

Sat May 25 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 2 — Ch. 2: Radio & Signals Fundamentals

## — June —

Sat Jun 1 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 3 — Ch. 7: Licensing Regulations

Tue Jun 4 — Board of Director's Meeting — 7:00 pm @ Colonial Café in Aurora, IL

Sat Jun 8 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 4 — Ch. 8: Operating Regulations

Tue Jun 11 — General Membership Meeting — 7:30 pm @ Bethany Luther Church in Batavia, IL

Sat Jun 15 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 5 — Ch. 6: Communicating with Other Hams

Sat Jun 22 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 6 — Tech Class Field Trip to the FRRL & BARS FIELD DAY Locations

Sat Jun 22 — Sun Jun 23 — 2019 Field Day Event @ LeyRoy Oaks Forest Preserve in St Charles, IL

Sat Jun 29 — Technician Class License Course — 9:00 AM - 12 noon @ Golden Corral in Aurora, IL  
Week 7 — Ch. 3: Electricity, Components, & Circuits

**For more information:** On any of the **Class schedules** visit our web site: <http://www.frll.org/education.php>

\* All Hamfests are as listed on the ARRL website under Hamfests & Conventions.



# Now that we've Moved.... What do you think of Groups.io?



**Everyone should now be using the new [FRRL Groups.io](#)**

**If you've need an invite to Groups.io - contact:** Chris Kennell - KC9BKS [groupadmin@frrl.org](mailto:groupadmin@frrl.org)

FRRL Group.io-ers,

Have any Tips about **Groups.io** you would like to share with the FRRL Membership?  
Share them, email: [Newsletter@frrl.org](mailto:Newsletter@frrl.org) - and they'll be included in next month's ArcOver.

*The ArcOver by the ArcOver Editor.*

*From: Kermit Carlson, W9XA*

## W9CEQ D-Star Systems are UP!

Kermit was able to repair a number of problems with the W9CEQ Dstar system. Both UHF and VHF system gateways had issues related to the new upgrade from G2 to G3 systems. Amongst the various issues was the fact that the routing tables had been corrupted. After Kermit reloaded the latest tables, the normal synchronization with the US Root Trust Server returned, along with the more dependable operation.

If you encounter issues with the DStar systems please email Kermit directly.

## FRRL Trivia

Did you know....



## FRRL Trivia

The City of Lights is one of many chapters of 10-10 International which started in, and was named for, the City of Aurora, Illinois' moto. The chapter's net started with members of the FRRL over 42 years again and is still going strong. As of the May ArcOver publishing, assuming the streak continues, the City of Lights 10-10 net will have had 2,219 consecutive Monday Night nets! Never having missed a Monday (Tuesday UTC). The City of Lights 10-10 Net's history, participation and schedules can be found on: [www.colpage.org](http://www.colpage.org).

The 10-10 International has SSB nets Monday through Saturday at 1800 UTC at both 28.800 MHz and 28.300 MHz.

Submitted by Joe Dubeck NA9A

# 2019 Technician Class



The **FRRL** club and the **Bolingbrook Amateur Radio Society (BARS)** clubs are working together again to co-present another Technician Class License Training Course this spring and summer.

Dates: **May 18, 2019 thru July 27, 2019**

When: **Saturdays — 9:00 AM to 12:00 PM**

Where: **Golden Corral in Aurora  
4270 East New York Street, Aurora, IL**

**VE Testing on: Saturday July 27, 2019 at 9:00 AM**

To Register Go To: <https://forms.gle/g5Q75CutLyYrxkjX8>

This Technician Course is a **FREE - 11 week** course, to be held every **Saturday Morning 9 AM to 12 noon** at the **Golden Corral, in Aurora**. This year's Technician Class will span over the **ARRL Field Day Event**. The Technician Class will be going on a **FIELD TRIP** to **FIELD DAY** to visit the FRRL and BARS Field Day Locations and **"Get on The Air"!!**



Class Dates	Technician Class	Class Location
May 18 - July 27, 2019	9:00 AM - 12:00 PM	Golden Corral 4270 East New York St. Aurora, IL 60101
May 18	1. Welcome to Amateur Radio 2. What is Amateur Radio 3. How to get on the air	9:00 AM - 12:00 PM
May 25	4. Radio and Signal Fundamentals 5. Radio Equipment	9:00 AM - 12:00 PM
June 1	6. Licensing Requirements 7. License Types 8. License Preparation	9:00 AM - 12:00 PM
June 8	9. Reporting Requirements 10. Operating Procedures 11. Emergency Communications	9:00 AM - 12:00 PM
June 15	12. Communicating with Other Radio 13. Safety 14. Safety Procedures	9:00 AM - 12:00 PM
June 22	15. Field Day Preparation - Setup Field Day 16. Field Day	9:00 AM - 12:00 PM
June 29	17. Emergency Communications and Critical 18. Emergency Procedures	9:00 AM - 12:00 PM
July 6	19. Propagation, Antennas, and Field Lines 20. Antennas	9:00 AM - 12:00 PM
July 13	21. Antennas and Equipment 22. Antennas	9:00 AM - 12:00 PM
July 20	23. Antennas 24. Antennas	9:00 AM - 12:00 PM
July 27	25. VE Testing - Awarded to Bring 26. VE Testing - Awarded to Bring	9:00 AM - 12:00 PM



**Come and support the Technician Class — Come early and eat breakfast with a ham!**

For more info about the class visit the FRRL website: <http://www.frrl.org/education.php> -or-  
Contact Education Chairman: Cyndi Gillies, K9NAX at: [PR@frrl.org](mailto:PR@frrl.org) or [k9nax@arrl.net](mailto:k9nax@arrl.net)  
Contact Director: Lance Clarke, W9QB at: [Director4@frrl.org](mailto:Director4@frrl.org) or [w9qb@arrl.net](mailto:w9qb@arrl.net)



*Saturday  
April 6, 2019  
12 pm—1 pm*

## FRRL EVENT: *Ham & a Sandwich*

The “*Ham & a Sandwich*” Event on Saturday April 6th was a Huge Success! On Saturday April 6, 2019, Thirteen Hams came out and enjoyed the warmer weather on a beautiful spring day to attend the very **FIRST** ever FRRL “*Ham and a Sandwich*” Event at the Les Arends Forest Preserve in Batavia, IL. It was great fun and fellowship! Everyone is looking forward to the next one!



**Left to Right:** John-W9JDM, Cyndi-K9NAX, Lance-W9QB, Priscilla-KD9JKL, Ken-KE9NM, guests Kenny & daughter.

**Not Pictured:** Chris-KC9IEQ, & Priscilla-AE9PM (photographer)



**Left to Right:** Mike-K9FE, Dave-W9BOO, Dan-W9STS, Tom-WD9DAU, Keith-N9YA,

**Not Pictured:** Denny-W9HI, & Doris-KD9KXD



## FRRL at the 2019 ARRL Field Day

The ARRL Field Day is approaching faster than we think. Come join your fellow FRRL members for the "contest that is not a contest". Maybe operate a mode or radio that you have not had the opportunity to try. Come join the fun! If you would like to operate or volunteer for set-up or teardown contact the FRRL Field Day Chairman: **Gorie Dailey** at: [fieldday@FRRL.org](mailto:fieldday@FRRL.org) or [aa5tn@outlook.com](mailto:aa5tn@outlook.com)

### WHEN:

- Setup: Friday, June 21
- Operating: Saturday, June 22, 1:00 PM CDT *through* Sunday, June 23, 1:00 PM CDT
- Teardown: Sunday, June 23

### WHERE:

- Leroy Oakes Forest Preserve — 37 W584 Dean Street St. Charles, IL 60175

### ABOUT:

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations.

Field Day is a picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN! It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as the general public. For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

The contest part is simply to contact as many other stations as possible and to learn to operate our radio gear in abnormal situations and less than optimal conditions.

We use these same skills when we help with events such as marathons and bike-a-thons; fundraisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities.

But despite the development of very complex, modern communications systems — or maybe because they ARE so complex — ham radio has been called into action again and again to provide communications in crises when it really matters. Amateur Radio people (also called "hams") are well known for our communications support in real disaster and post-disaster situations.

-end-



# FRRL Featured News

## ARRL Contest Dates



### ARRL Contest Calendar Dates

*If you missed out on Contest Dates—Check back here every month!*

<b>March 2019</b> 2-3 <a href="#"><u>International DX– Phone</u></a>	<b>April 2019</b> 14 <a href="#"><u>Rookie Roundup – Phone</u></a>
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No Contests are planned for May, 2019

<b>June 2019</b> 8-10 <a href="#"><u>June VHF</u></a> 15 <a href="#"><u>Kids Day</u></a> 22-23 <a href="#"><u>Field Day</u></a>	<b>July 2019</b> 13-14 <a href="#"><u>IARU HF World Championship</u></a>
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- ◆ Contest Calendar Dates and Information are from the ARRL website.

<http://www.arrl.org/contest-calendar>





## ARRL NEWS

### International Marconi Day 2019 is April 27 (UTC)

Some 70 stations have registered to take part in the **2019 International Marconi Day (IMD)** observance on Saturday, April 27 (UTC).

**Registered stations** will operate at sites with a personal connection to wireless pioneer Guglielmo Marconi, including sites at which he set up transmitting and receiving stations. The 24-hour Amateur Radio event celebrates the birth of Marconi on April 25, 1874, and is typically held on the Saturday closest to Marconi's birthday. During IMD 2019, radio amateurs around the world will make contact with historic Marconi sites. The event is sponsored by the Cornish Radio Amateur Club, which will operate as GB4IMD.

While April 27 is the day of the official celebration, some IMD special events will take place outside of that time frame, although only contacts made on April 27 count for IMD awards. For example, in Austria, OE19M will be on the air from April 26 until April 28 as an official IMD. Numerous IMD stations will be on the air from various locations in Marconi's native Italy. Stations in Ireland will include EIOMAR, which will operate from the Hurdy Gurdy Museum of Vintage Radio in Howth. The Marconi Company conducted telegraph testing at Dublin's Martello Tower in 1905. Also participating from Ireland will be EI5IMD from the Cork Radio Club; EI0CAR from the Carndonagh ARC, and EI0YXQ from the Marconi Radio Site in Kerry.

Several US stations have registered as official IMD stations, including two on Cape Cod, where Marconi had established stations in Wellfleet and Chatham. In 1903, Marconi successfully transmitted messages between US President Teddy Roosevelt and King Edward VII of England. With rapid advances in technology, the station became outdated in a matter of a few years, and was replaced by a newer station in Chatham, Massachusetts. Others include special event K3S in Baltimore, sponsored by the Nuclear Ship Savannah Amateur Radio Club (K3SAV). VO1MD will be on the air from Signal Hill near St. John's, Newfoundland, where Marconi first received a signal from across the Atlantic in 1901.

-end-



## ARRL NEWS



### Three BIRDS Constellation CubeSats Delivered to ISS for Orbital Deployment

A Cygnus resupply mission to the International Space Station (ISS) on April 11 also delivered three CubeSats of the **BIRDS-3** constellation and three other CubeSats. The BIRDS-3 constellation is a project of students at the Kyushu Institute of Technology. The additional CubeSats include Swiatowid, KrakSat, and EntrySat.

All BIRDS-3 CubeSats are of the same design and have been coordinated to operate on a common downlink frequency of 435.375 MHz. Each will transmit a CW beacon and 9.6 k GMSK telemetry. The CubeSat deployer in the ISS Kibo module will deploy the BIRDS-3 CubeSats at a later date.

The BIRDS-3 constellation includes CubeSats from three countries: They are Nepal's first satellite, NepaliSat-1; Uguisu from Japan, and Sri Lanka's first satellite, Raavana-1. The primary mission of the BIRDS constellation is to provide ciphered short messages via its 435.375 MHz beacon, giving the opportunity for the Amateur Radio community to decipher the messages using a publicly available key on the **BIRDS-3 website**. Operators able to successfully decipher the message will be recognized on the BIRDS-3 website and receive a BIRDS-3 QSL card.

In addition to their primary mission, BIRDS-3 CubeSats will conduct remote data collection based on low-powered LoRa modulation to demonstrate remote data collection and processing aboard a CubeSat to, for example, monitor water levels in flood-prone areas. The LoRa remote station will operate at 433 MHz for Sri Lanka and Nepal and at 920 MHz for Japan. Data collected will be posted on the BIRDS-3 website. Radio amateurs contributing to receiving the processed data will receive a QSL card showing the nature of data collected.

BIRDS-3 will also carry an imaging mission for public outreach and awareness and Earth magnetic field measurement; a mission to find commercial, off-the-shelf alternatives to expensive space adhesives, and active attitude stabilization as a precursor to active aiming control for future CubeSat missions.

Other CubeSats carried aloft on the same launch include: Swiatowid, which will carry a V/U transponder, with an FM voice uplink at 436.000 MHz and downlink at 145.850. Telemetry will be transmitted on 435.500 MHz and at 2435.000 MHz; KrakSat, which will transmit 9.6 k and 1.2 k telemetry at 435.500 MHz, and EntrySat, a 3U CubeSat that will measure thermosphere parameters during its orbital phase, and satellite re-entry during the re-entry phase. It will carry an Amateur Radio FM relay with a downlink of 436.950 (uplink not available) and 9.6 k packet. — *Thanks to AMSAT News Service*

-end-

04/22/2019

## ARRL NEWS



### West Coast Station K9JM to Transmit April 25 ARRL Code Proficiency Run

West Coast station K9JM will be transmitting the official ARRL Code Proficiency Run on April 25 at 0400 UTC (Wednesday, April 24, in US time zones) on 3590 kHz. Sending speeds will run from 10 to 35 WPM.

-end-

04/22/2019

### IARU Argues for Protection from Wireless Power Transfer Spurious Emissions

The International Amateur Radio Union (IARU) was represented April 8 – 10, when **CEPT Committee SE24 – Short Range Devices** met in Ankara, Turkey, to undertake further work concerning wireless power transfer/transmission (WPT). SE24 is considering WPT for electric vehicles (WPT-EV) and also for generic applications.



IARU already provided extensive input on the potential impact on radio communications resulting from spurious emissions from WPT devices, as detailed in **CEPT ECC Report 289**, published in January. According to that report, given the planned density of WPT systems for electric vehicles operating in the 79 – 90 kHz range, it is calculated that there will be a widespread and serious impact for the Amateur Service in the vicinity of WPT systems, should spurious emissions, measured at 10 meters, be at the current limits of **ERC Recommendation 74-01**.

At the Ankara meeting, IARU and other interested parties provided further input. SE24 will meet again in early July to focus on WPT issues.

Also at Ankara, IARU attended the Short-Range Devices Maintenance Group meeting (SRD/MG), where it was noted that further work was needed in SE24 before spurious emission limits for WPT devices could be addressed in a regulatory sense. IARU was represented in Ankara by IARU Region 1 President Don Beattie, G3BJ, who is spearheading the IARU's work in this area.

The issue of WPT-EV is World Radiocommunication Conference 2019 (WRC-19) Agenda Item 9.1.6, for which studies are still under way. Broadcasters, land mobile services, and others have also expressed concern about spurious WPT-EV emissions. Further work remains regarding generic WPT systems for such applications as cell phone charging, power tools, and household appliances.

-end-

1/2/2019



# ARRL EVENTS

## Third Wednesday Monthly Communications Exercises Set

FEMA Region 10 will conduct monthly communications exercises (COMMEX) on the third Wednesday of each month, starting on January 16, 1730 – 1900 UTC. Amateur Radio operators are invited to take part. The intent of these exercises is to test and exercise interoperable communication (federal/state/local/tribal/Amateur Radio) during a major disaster in which the communication infrastructure is significantly damaged or destroyed.

FEMA Region 10 will use the call sign WGY910. Other stations associated with agencies and organizations that provide response support in accordance with the National Response Framework are encouraged to participate.

The COMMEX will use these “dial” or “window” frequencies on 60 meters — including 5,330.5 kHz, 5,346.5 kHz, 5,357.0 kHz, 5,371.5 kHz, and 5,403.5 kHz — as part of the exercise. The area of operation is the continental US.

### Extra Class

E0A08

Answer: **C. The rate at which RF energy is absorbed by the body**

## Conventions

Go Now

May 17-19, 2019 ■ ARRL National Convention — Dayton Hamvention® ■ Xenia, Ohio

May 31- June 2, 2019 ■ Northwestern Division — SEA-PAC® ■ Seaside, Oregon

June 7-8, 2019 ■ West Gulf Division — Ham-Com ■ Plano, Texas

August 8 -10, 2019 ■ Rocky Mountain Division — Utah Hamfest ■ Ogden, Utah

## IMPORTANT AMATEUR RADIO WEB PAGE LINKS

Visit our website – FRRL Website: [www.frrl.org](http://www.frrl.org)

[www.arrl.org](http://www.arrl.org)

[www.qrz.com](http://www.qrz.com)

[www.colpage.org](http://www.colpage.org)

[www.twit.tv/hn](http://www.twit.tv/hn)

[www.dailydx.com](http://www.dailydx.com)

[www.dxspots.com](http://www.dxspots.com)

### Follow FRRL on Facebook:

FRRL Facebook Page: <https://www.facebook.com/foxriverradio/>

FRRL Facebook Group: <https://www.facebook.com/groups/foxriverradio/>



### FRRL Repeaters:

W9CEQ – 147.210 MHz +600 KHz Offset, 103.5 PL

W9CEQ – 444.300 MHz +5 MHz Offset, 114.8 PL

### FRRL Digital Voice/Data Repeaters: (Contact Kermit, W9XA for info)

W9CEQ – B D-Star – 442.10625 MHz, +5.0 MHz offset

W9CEQ – C D-Star – 147.225 MHz, +0.6 MHz offset

### Other Local Area Repeaters:

#### KC9OEM – Owned by Kane County OEM:

KC9OEM – 145.470 MHz -600 KHz, 103.5 PL

(2 meter is primary Kane Co. SKYWARN/ARES Frequency)

#### W9DWP – Kane Co. Amateur Public Svc. Repeaters:

(Both repeaters are dual mode APCO-25 NAC-293)

W9DWP – 145.270 -600 KHz, 107.2 PL

W9DWP – 443.025 +5 MHz, 114.8 PL

#### W9XA – 6 meter:

W9XA – Input: 52.210 Output: 53.910 Carrier Access FM (W9XA 6-meter repeater)

#### W9ZGP – NIARC:

W9ZGP – 147.060 +600 KHz, 103.5 PL

#### K9BAR – BARS – Bolingbrook Amateur Radio Society Repeaters: (education partner)

K9BAR – 147.330 +600 KHz, 107.2 PL - (EchoLink: K9BAR-R Node # 261875)

K9BAR – 443.525 +5.0 MHz, 114.8 PL & NAC-293 - P25/Mixed-Mode Analog

K9BAR – 443.700 +, Color Code 1 TS1 & 2 - DMR Repeater

### Weekly Nets:

MON: CITY of LIGHTS chapter of 10-10 INTL NET History & Info: [www.colpage.org](http://www.colpage.org).

CW NET: at 8:00 pm, 28.150 MHz      SSB NET: at 8:30 pm, 28.720 MHz

–SAT: 10-10 INTL NET <https://www.ten-ten.org/>      SSB: at 1:00 pm on 28.800 & 28.300 MHz

TUE: FRRL 2m NET: at 7:30 pm, on W9CEQ (except Tues meeting nights)

WED: ARES & SKYWARN NET: at 6:30 pm, on KC9OEM 2 meter repeater

ILLINOIS DSTAR Net: at 8:00 pm, on the DStar 2 meter repeater

THU: BARS INFO & TRAFFIC NET: at 8:00 pm, on K9BAR linked 2m/440 repeaters

BARS SKYWARN NET: at 8:30 pm, on K9BAR linked 2m/440 repeaters